

AMENDMENTS TO THE DRAWINGS

By this Amendment, the first three pages of the drawings including FIGs. 1-3 have been replaced with corrected Replacement Sheets in compliance with 37 C.F.R. 1.121(d), which are attached hereto.

Attachments: 3 Replacement Sheets

REMARKS

Through this Amendment and Response, the Applicants cancel claim 2, amend claims 1, 3-11 and 14, and add new claim 15. Thus, claims 1 and 3-15 are pending in this application. The Amendment is fully supported by the Specification and no new matter has been added. Applicants have carefully and thoughtfully considered the Office Action and the comments therein. Based on the foregoing amendment and the following remarks, it is respectfully submitted that the instant application is in condition for allowance. Prompt reconsideration and withdrawal of the rejections is earnestly requested.

Information Disclosure Statement

Applicants filed a Second Information Disclosure Statement (IDS) on November 2, 2007, which is the same day the Office Action was mailed. Pursuant to 37 C.F.R. § 1.97(c), Applicants respectfully request consideration of the Second IDS.

Allowable Subject Matter

On page 5, sections 8-9, of the Office Action, claims 4-14 are indicated as allowable if rewritten to overcome the rejections under 35 U.S.C. § 112, second paragraph, set forth in the Office Action and to include all limitations of the base claim and any intervening claims. Applicants thank the Examiner for the indication of allowability of these claims.

Drawings

On pages 2-3, sections 2-3, of the Office Action, objections are presented to the drawings. Specifically, section 2 of the Office Action points out that FIGs. 1-3 should be designated by a legend such as --Prior Art--. By this Amendment, corrected drawings sheets

entitled "Replacement Sheet" in accordance with 37 C.F.R. § 1.84 and 37 C.F.R. § 1.121(d) are attached hereto. FIGs. 1-3 on the corrected Replacement Sheets are designated as "Prior Art". Consideration and approval of the attached drawings is respectfully requested.

Also, section 3 of the Office Action states that features of claims 4 and 7 must be shown in the drawings. Claims 4 and 7 have been amended to recite "the short circuit line being positioned between the short circuit pin and the feed point and having a length which is half of the electrical length of the first radiator." These features are shown in FIGs. 4 and 5 of the Application, which illustrate the short circuit line 48 positioned between the short circuit pin 46 and the feed point 43. FIGs. 4 and 5 also depict the length of the short circuit line 48 to be half the electrical length of the first radiator 42. Accordingly, the drawings show the features of claims 4 and 7. Withdrawal of the objections to the drawings is respectfully requested.

Rejections under 35 U.S.C. §112, Second Paragraph

On pages 3-4, sections 4-5, of the Office Action, claims 1-14 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims have been herein amended to better define the features of the invention. It is believed that these amendments have either been overcome or rendered moot in light of the amendments. Accordingly, withdrawal of the rejections of claims 1 and 3-14 and allowance thereof is respectfully requested.

Rejections under 35 U.S.C. §102

On pages 4-5, sections 6-7 of the Office Action, claims 1-3 are rejection under 35 U.S.C. § 102(e) as being anticipated by U.S. Application No. 2002/0118142 to Wang (“Wang”). This rejection is respectfully traversed.

Claim 1 has been amended to recite “a first radiator for omni-directionally releasing the electromagnetic signals *in a first band of electromagnetic waves*, wherein *the feed point is positioned substantially near a center of an electrical length of the first radiator*” (emphasis added). These features are not taught or suggested by Wang.

Wang teaches in FIG. 3 a dual-band meandering-line antenna 30 in which a mid-point connector 34a (i.e., a feed point) is located near the middle of a meandering-line conductor 34, between two ends 34b, 34c of the meandering-line conductor 34. See Wang, page 2, paragraph [0024]. As shown in FIG. 3 of Wang, the mid-point 34a divides the meandering-line conductor 34 into two segments 34a-34b and 34a-34c. See Wang, page 2, paragraph [0025]. As Wang makes clear, however, these two segments 34a-34b and 34a-34c have **different frequency bands**. See Wang, page 2, paragraph [0025]. Thus, for example, in a wireless communication system with different frequency bands, the segment 34a-34b can be utilized for low frequency transmission while the segment and 34a-34c can be used for high frequency transmission. See Wang, page 2, paragraph [0025]. Therefore, the meandering-line conductor 34 of Wang does not release signals within **a first band of electromagnetic waves**, as recited in claim 1.

By aligning either of the two segments 34a-34b and 34a-34c of Wang, which have their own distinct frequency band, with the claimed first radiator, the claimed features are not met. Neither one of the two segments 34a-34b and 34a-34c of Wang has a feed point substantially near its center. Thus, Wang fails to disclose, teach or suggest an “a first radiator

for omni-directionally releasing the electromagnetic signals *in a first band of electromagnetic waves*, wherein *the feed point is positioned substantially near a center of an electrical length of the first radiator*” as recited in claim 1 (emphasis added).

Accordingly, claim 1 is submitted as allowable over Wang. Claim 3 is dependent on claim 1 and is submitted as allowable for at least the same reasons as claim 1.

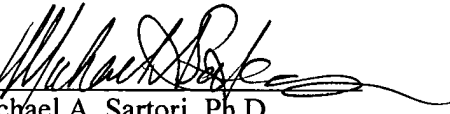
New Claim

Claim 15 is dependent on claim 1 and is submitted as allowable for at least the same reasons.

THEREFORE, because all rejections have been overcome, it is submitted that claims 1 and 3-15 are allowable and such allowance is requested.

Dated: February 4, 2008

Respectfully submitted,

By 
Michael A. Sartori, Ph.D.

Registration No.: 41,289
VENABLE LLP
P.O. Box 34385
Washington, DC 20043-9998
(202) 344-4000
(202) 344-8300 (Fax)
Attorney/Agent For Applicant

Attachments

MAS:ARR/elw

::ODMA\PCDOCS\DC2DOCS\1\928406\1